Checking Oxygen Loss in a Coated Iron Model

Scoring guide · one credit per question · review written work against each rubric

Checking Oxygen Loss in a Coated Iron Model

Question 1

Choice (2)

J and L each go from 10 mg to 4 mg oxygen gas.

Question 2

The gas loses 10 − 4 = 6 mg of oxygen. The iron sample accounts for 2 mg, leaving 6 − 2 = 4 mg elsewhere.

Question 3

Both chambers lose 6 mg of oxygen gas. However, the iron sample gains 6 mg in J and only 2 mg in L. Some of L’s gas loss may reflect oxygen going somewhere other than the iron oxide.

Question 4

Measure the oxygen decrease with the coating on the nonreacting support. A loss near 4 mg, especially if the coating gains about 4 mg, would support uptake by the coating.